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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/937,461	02/01/2002	Ichiro Kubota	450101-03584	9479	
75	590 08/21/2006		EXAMINER		
William S Fro	ommer	SHANG, ANNAN Q			
Frormmer Lawrence & Haug 745 Fifth Avenue			ART UNIT	PAPER NUMBER	
New York, NY	10151		2623		
			DATE MAILED: 08/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)					
Office Action Summary			09/937,461	KUBOTA ET AL					
			Examiner	Art Unit					
			Annan Q. Shang	2623					
Period fo	The MAILING DATE of this commu or Reply	nication appe	ars on the cover sheet	with the correspondence a	nddress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSIAN STATE OF THE PROVISION OF T	MAILING DA s of 37 CFR 1.136 munication. tatutory period will y will, by statute, o	TE OF THIS COMMUN S(a). In no event, however, may apply and will expire SIX (6) M cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) file	ed on 24 Se	ntambar 2001						
	Responsive to communication(s) filed on <u>24 September 2001</u> . This action is FINAL . 2b) This action is non-final.								
3)	,—								
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disnositi			r parto quayro, 1000 c	.5. 11, 400 0.0. 210.					
· ·	osition of Claims								
	Claim(s) <u>1-18</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.								
_	6) Claim(s) <u>1-18</u> is/are rejected.								
·	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
ات(٥	Claim(s) are subject to restri	cuon and/or	election requirement.						
Applicati	ion Papers								
9)[The specification is objected to by the	ne Examiner.							
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119								
_	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the Internation		, ,,,						
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
1) Notic	e of References Cited (PTO-892)			w Summary (PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO-1449 or	PTO-948)		o(s)/Mail Date of Informal Patent Application (P	T(L152)				
	r No(s)/Mail Date <u>9/24/01</u> .	i r-10/36/08)	6) Other:		10-102)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-5 and 7-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Sie et al (6,973,662).

As to claim 1, note the **Sie** reference figures 3-5 and 12-14, discloses method for providing programming distribution and further discloses a data transmission system for distributing predetermined data through transmission paths, the data transmission system comprising:

A data transmitting apparatus (figs.3 and 4, every element on the left of the network, i.e., 116, 124, 128, 132, 136 and 304 or 404, Headend 'HE', col.3, line 56-col.4, line 21 and col.19, lines 16-37) including data supply means for supplying the data (128, 132 and 136), transmission control means (SMS-124) for dividing the data (MPEG-2 or different algorithms such as MPEG-4, data files, movie content, etc.) supplied by the data supply means into a predetermined number of data files to distribute the divided divisional data files, and data transmitting means (SMS-124) for

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transmitting each of the distributed divisional data files respectively through a predetermined transmission path/paths which are different from each other (via different channels and different network, col.5, lines 5-18, col.7, lines 3-12, col.14, line 4-col.15, line 47) and where the data files are restored by synthesis, note that the data file(s), movies or video program is staggered among various channels and distributed in real-time via satellite on different transponders or via other communication network and once a viewer begins watching a portion of the data, movie, etc., the rest the data, movie, etc., is retrieved via combination of different channels or networks, satellite, cable, optical fiber and other broadband networks; and

A data receiving apparatus (STB 120/412 figs.4-6, or Receiver 1100, 1200, etc., figs.11-16) including data receiving means (Program Receiver/ Program Server) for receiving the divisional data files transmitted through the predetermined transmission paths, data receiving control means (Controller or Control Circuit) for restoring by synthesizing the plurality of the plurality of the received divisional data files, transmitted via different channels, transponders, etc., of the different networks, into original data or MPEG file(s), and data output means for outputting the restored data (figs.11, 12, col.14, line 56-col.15, line 35 and col.17, line 43-col.18, line50).

As to claim 2, Sie further discloses where the data transmission system where the data supply means stores data files generated in advance, to deliver the stored data files as occasion demands (col.3, lines 66-col.4, line 13 and col.14, line 19-29).

As to claim 3, Sie further discloses where the data supply means supplies data generated in real time (col.3, lines 66-col.4, line 13 and col.14, line 19-29).

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Claim 4 is met as previously discussed with respect to claim 1.

As to claim 5, Sie further discloses where the transmission control means of the data transmitting apparatus divides the data in units of predetermined transmission frame to distribute each of the divisional data files respectively to the data transmitting means (figs.9A-9C and col.14, line 4-col.15, line 35).

As to claim 7, Sie further discloses where each of the transmission paths is formed by a plurality of transponders mounted in satellite (col.5, lines 38-48 and line 60-col.6, line 2).

As to claim 8, the claimed "A data transmitting apparatus for transmitting predetermined data through transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 9, the claimed "A data receiving apparatus for receiving predetermined data through transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 10, the claimed "A data transmitting method for distributing predetermined data through transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 11, the claimed "A data transmission system for transmitting moving picture data files through a transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

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As to claim 12, the claimed "A data transmitting apparatus for transmitting moving picture data files through a transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 13, the claimed "A data receiving apparatus for receiving predetermined data through transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 14, the claimed "A data transmitting method for transmitting moving picture data files through transmission paths..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 15, the claimed "A data transmission system for transmitting movie contents files through satellite transponders..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 16, the claimed "A data transmitting apparatus for transmitting movie content files through satellite transponders..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 17, the claimed "A data receiving apparatus for receiving movie content files through satellite transponders..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

As to claim 18, the claimed "A data transmission method for transmitting movie contents files through satellite transponders..." is composed of the same structural elements that where discussed with respect to the rejection of claim 1.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sie et al (6,973,662) as applied to claim 1 above, and further in view of Payton (5,831,662).

As to claim 6, Sie further teach where the data transmitting means of the data transmitting apparatus further detects a state as to whether the transmission path connected to the transmitting means can be used or not, and transmits the detected state serving as transmission path information to the transmission control means (col.7, lines 5-18, col.7, lines 3-12, col.14, line 47-55, line 65-col.15, line 35)

Sie fails to explicitly teach where the transmission control means of the data transmitting apparatus further collects the transmission path information to calculate a number of usable transmission paths to divide the data in correspondence the calculated number to distribute each of the divisional data files respectively to the usable data transmitting means.

However, not the **Payton** reference discloses a near on-demand delivery system, which collects the transmission path information to calculate a number of usable transmission paths to divide the data in correspondence the calculated number to distribute each of the divisional data files respectively to the usable data transmitting means (col.3, lines 23-col.5, line 5 and line 64-col.6, line 67).

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Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Payton into the system of Sie to determine the minimum number of available paths, channels, networks, etc., that can be used to transmit the various data fragments.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Goldszmidt et al. (6,195,680) disclose client-based dynamic switching of streaming servers for fault-tolerance and load balancing.

Attanasio et al. (5,918,017) disclose system and method for providing dynamically alterable computer clusters for message routing.

Crag (5,790,176) media server for supplying video and multimedia data over the public switched telephone network.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

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Annan Q. Shang